

FIG. 1

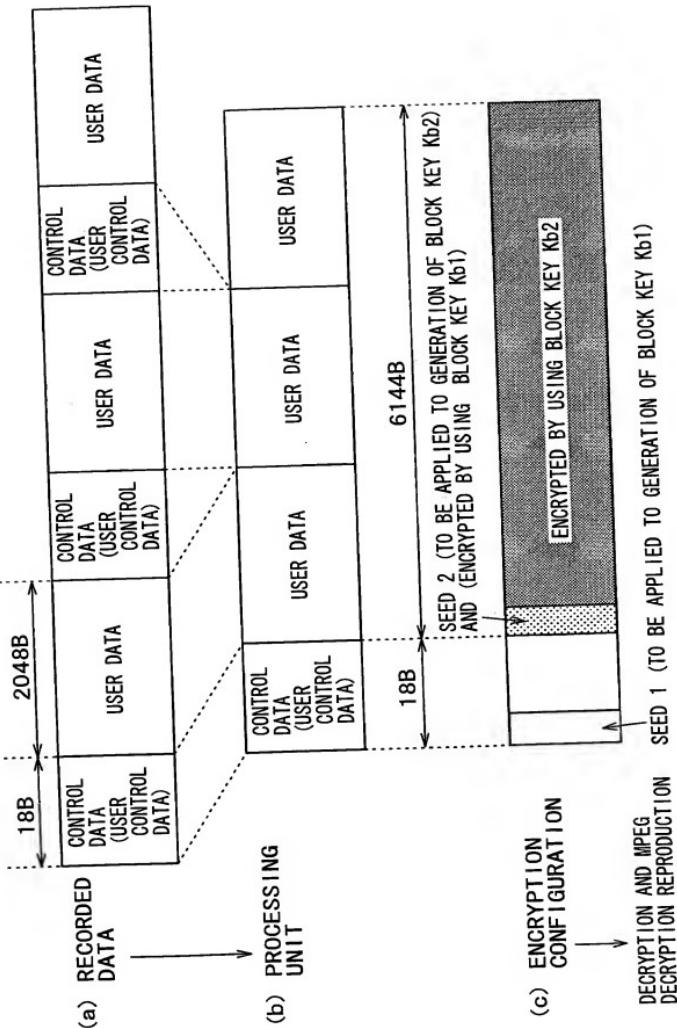


FIG. 2

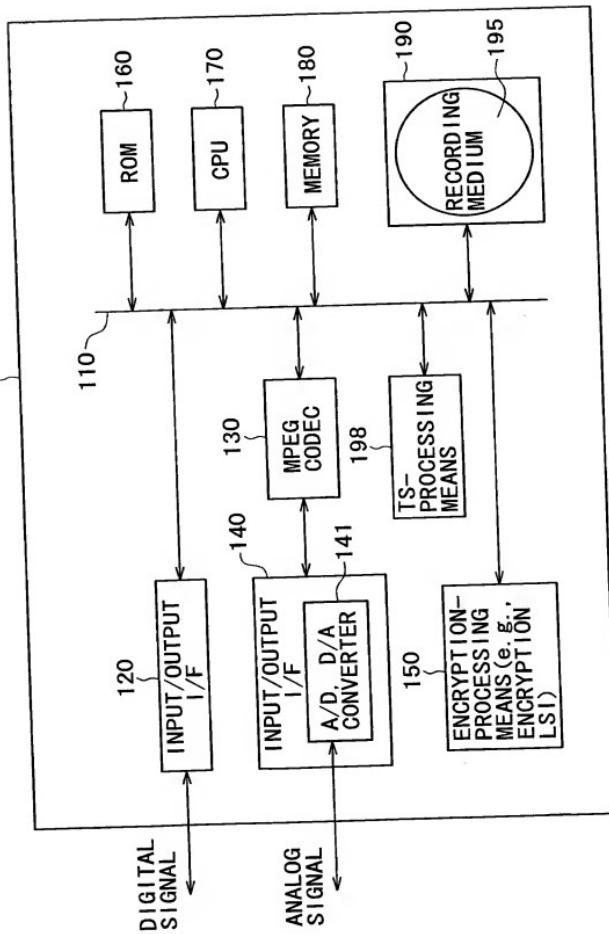


FIG. 3

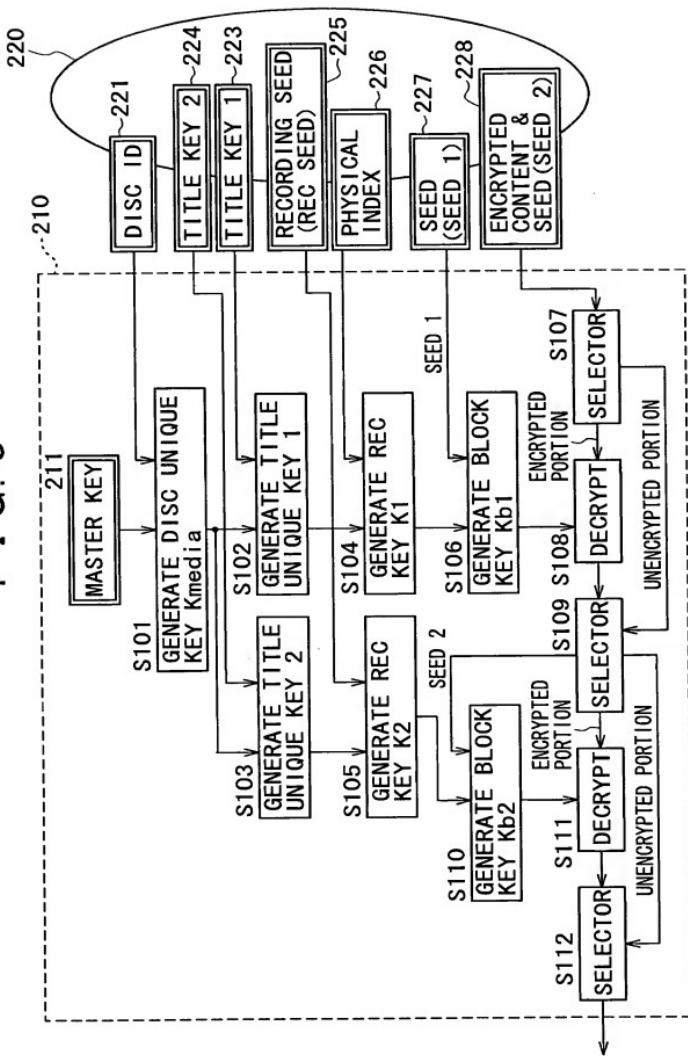


FIG. 4

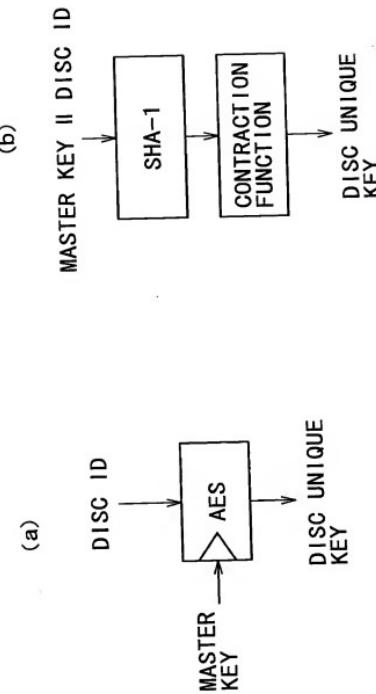


FIG. 5

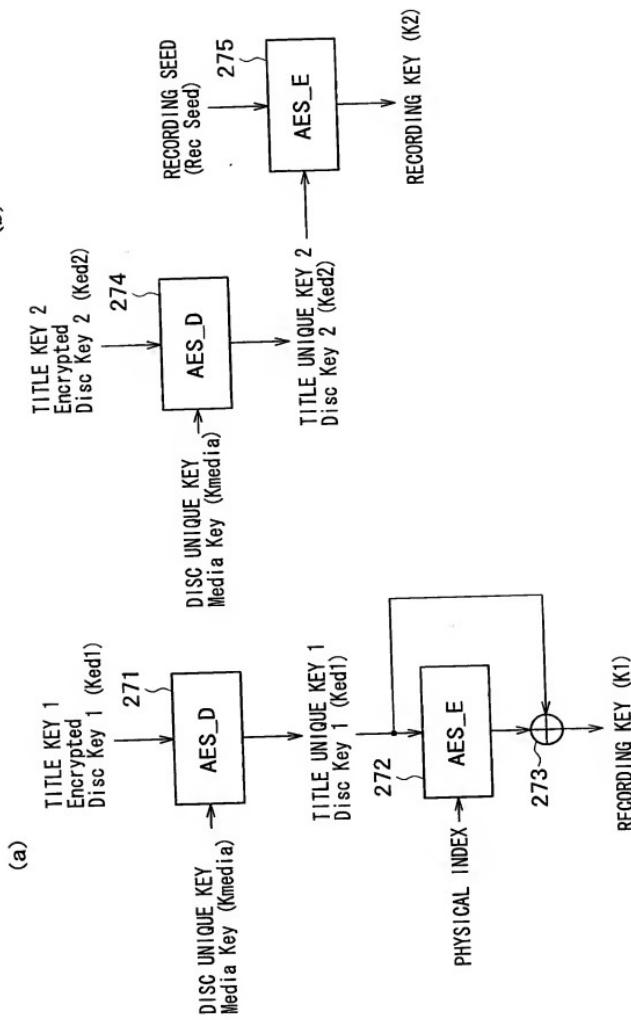
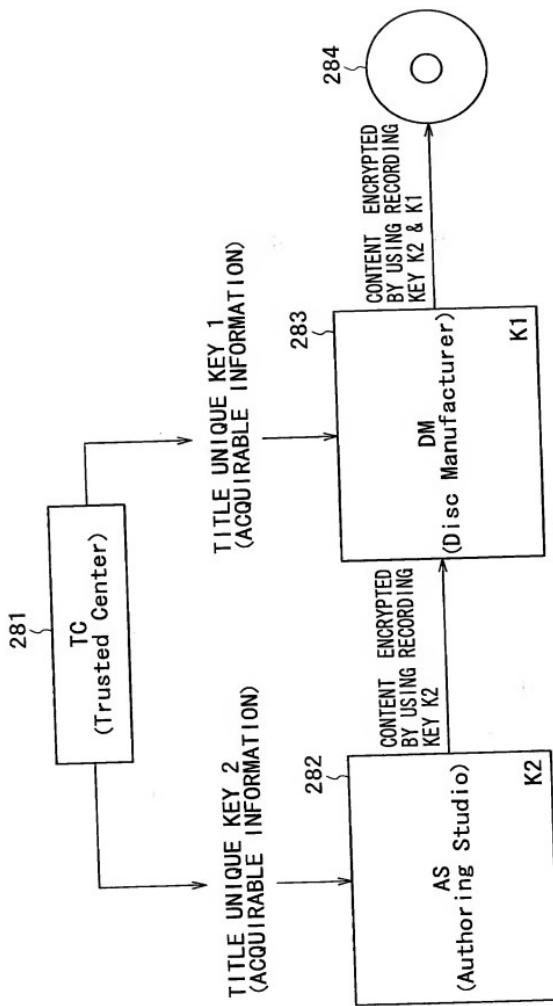


FIG. 6

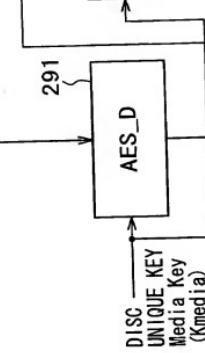


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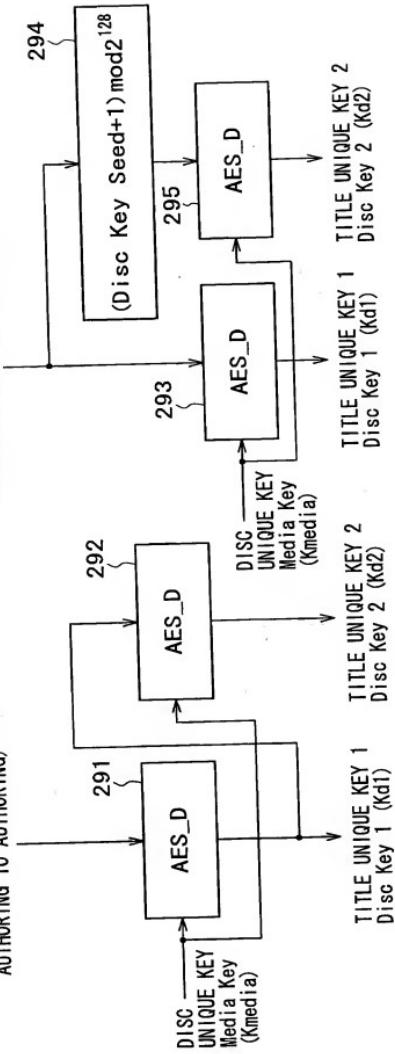
FIG. 7

(a) OUTPUT FEEDBACK MODE

Disc Key Seed
(VALUE CHANGING RANDOMLY FROM
AUTHORING TO AUTHORIZING)

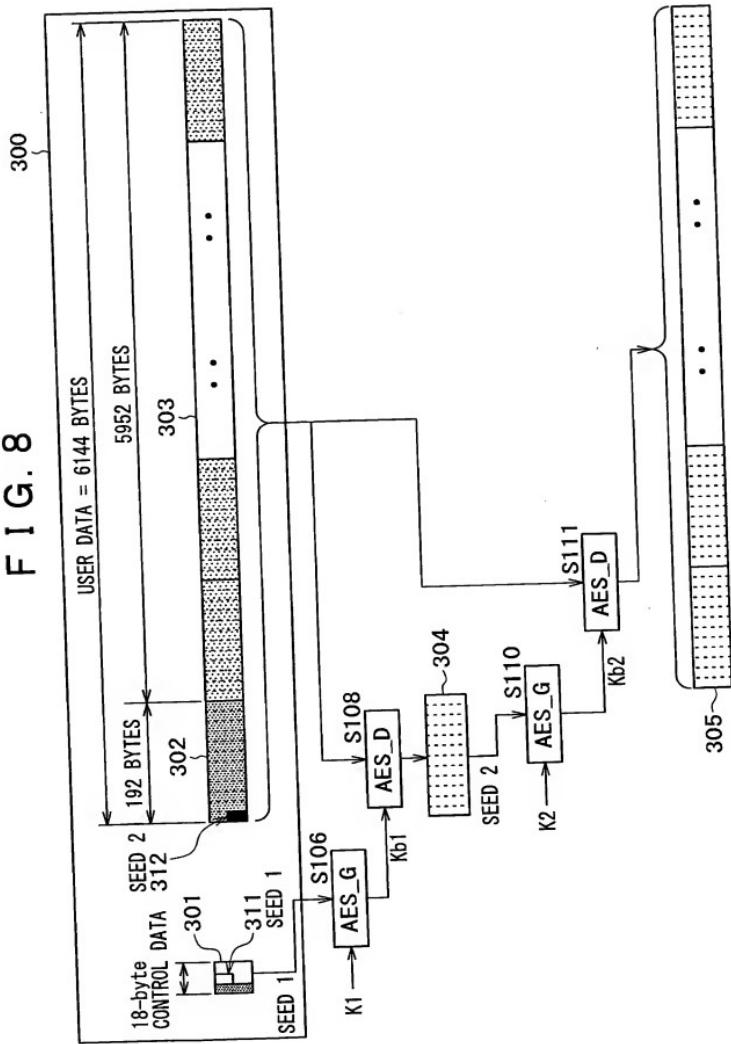
(b) COUNTER MODE

Disc Key Seed
(VALUE CHANGING RANDOMLY
FROM AUTHORIZING TO AUTHORIZING)



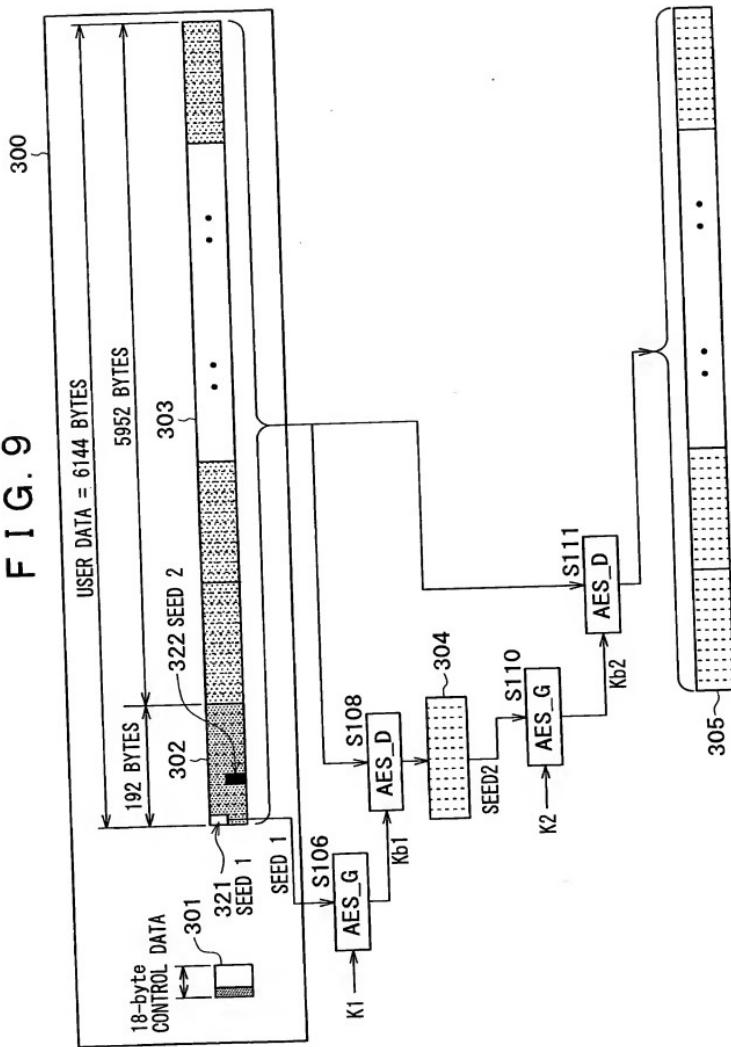
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FIG. 8



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FIG. 9



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FIG. 10

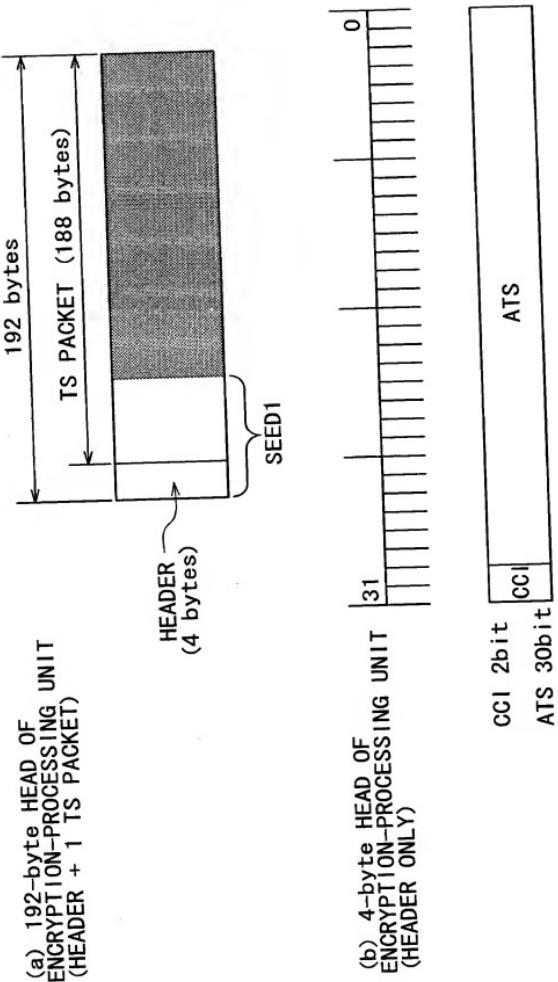
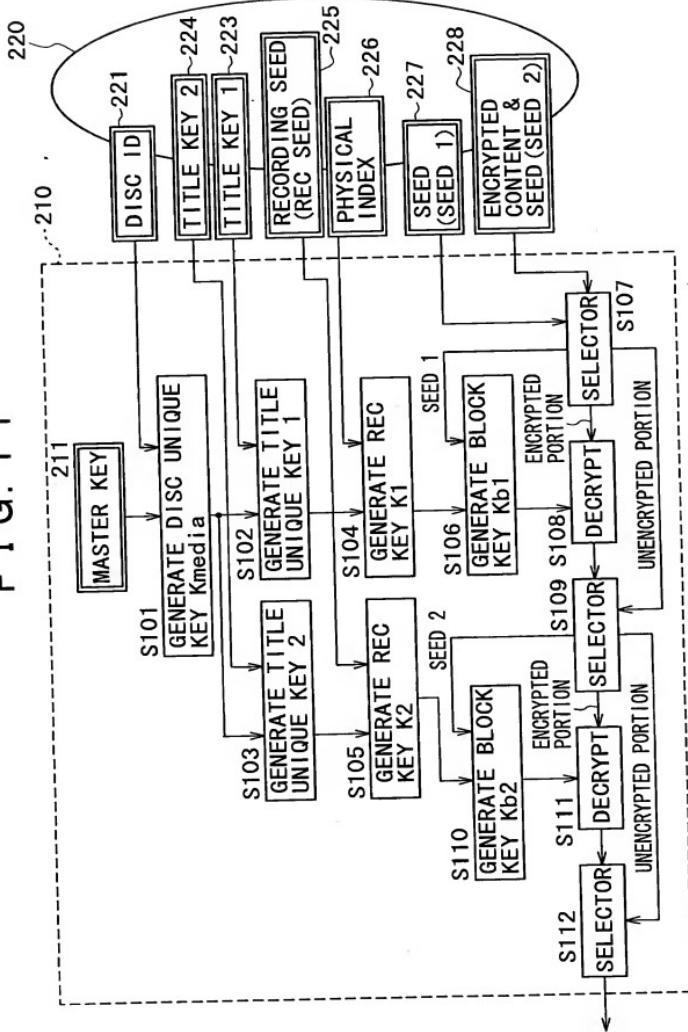
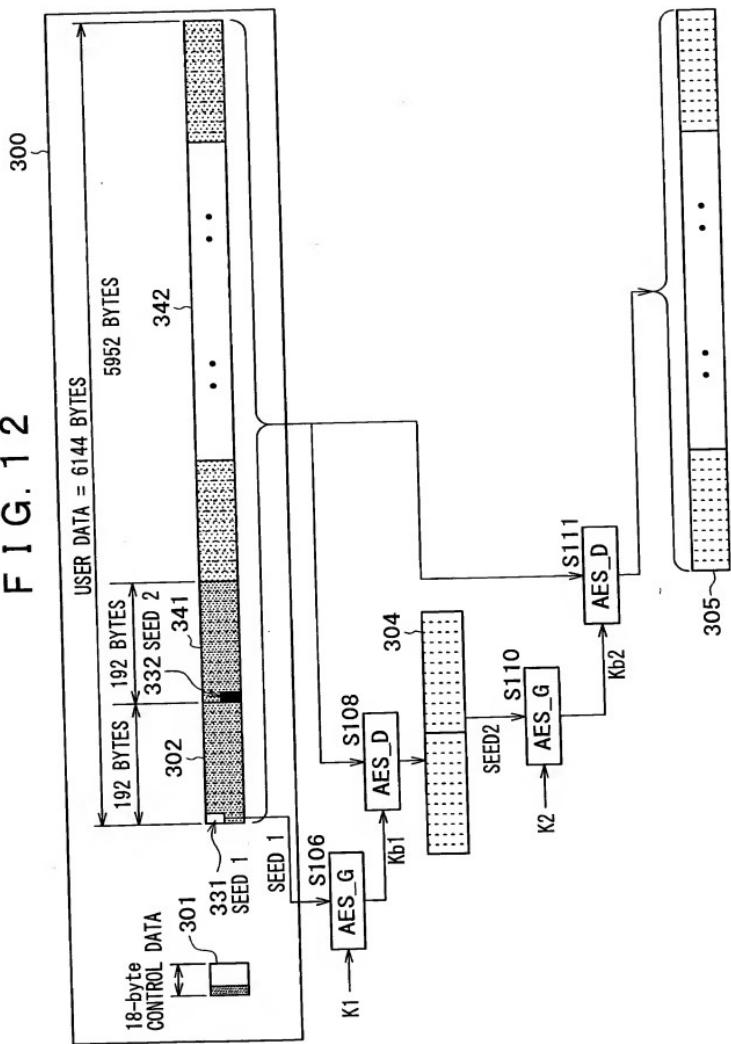


FIG. 11



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FIG. 12



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FIG. 13

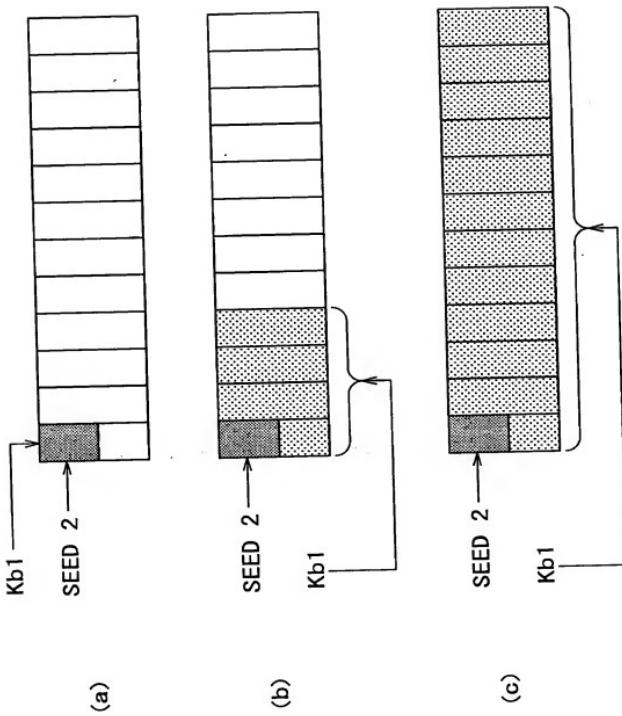
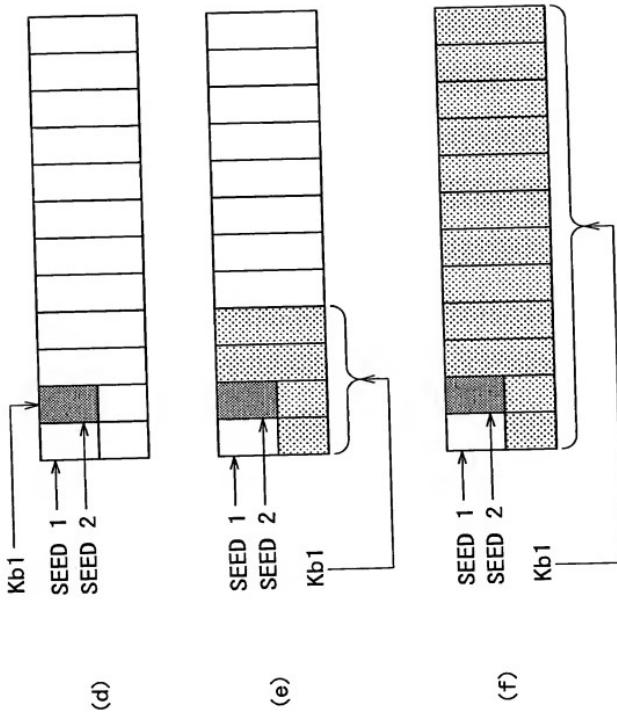


FIG. 14



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FIG. 15

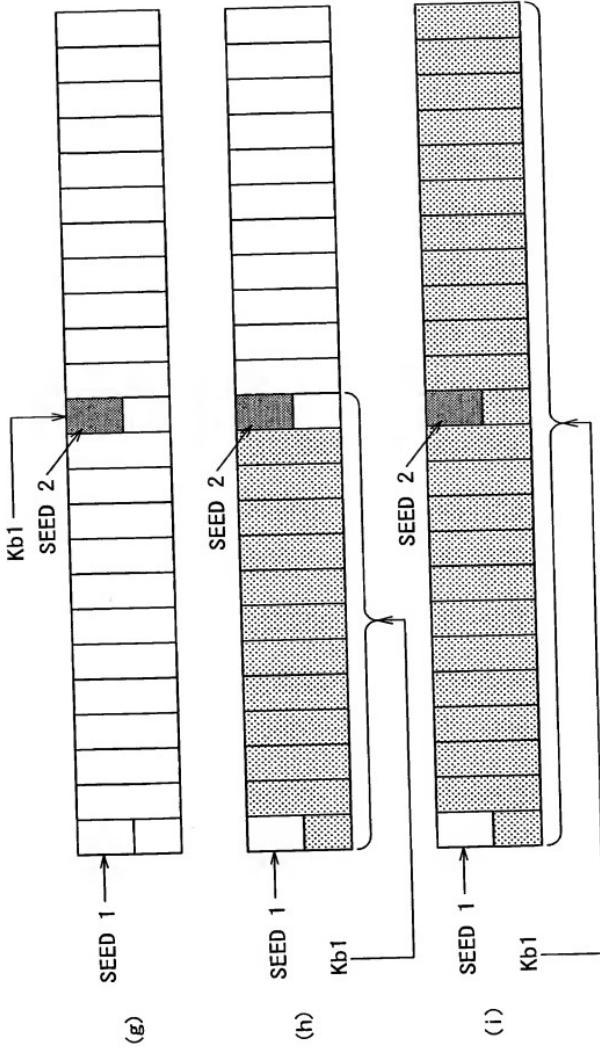


FIG. 16

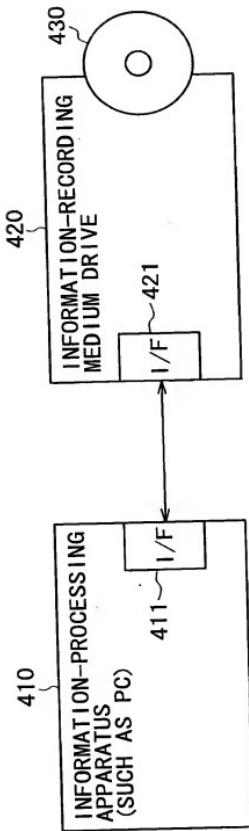


FIG. 17

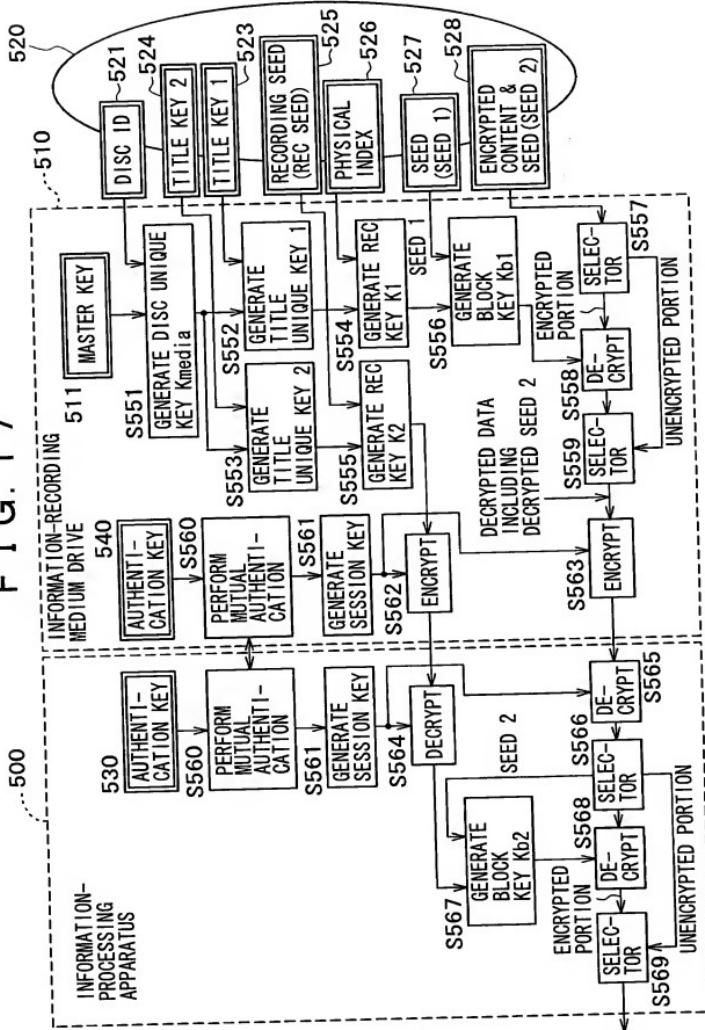
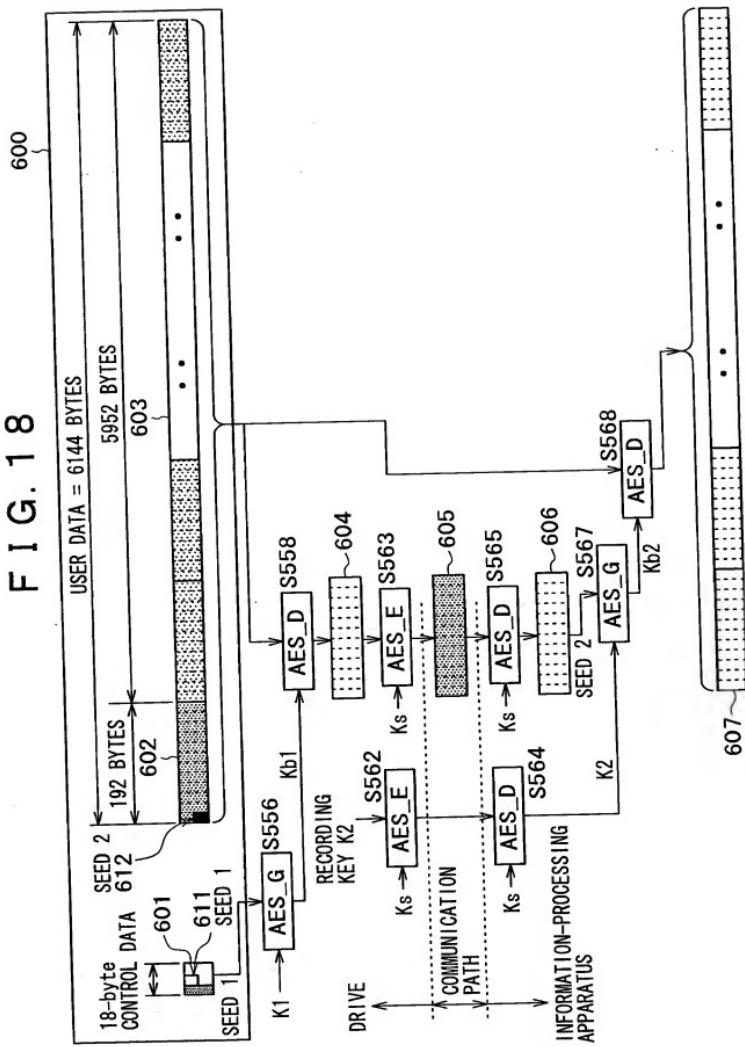


FIG. 18



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FIG. 19

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INFORMATION-RECORDING
MEDIUM DRIVESHARED AUTHENTICATION
KEY KmSHARED AUTHENTICATION
KEY KmRb1
64bitseKm(Ra1 || Rb1)
128bits

S582

MAC
(AES)

S581

Ra1
64bits

S584

MAC
(AES)

S583

Rb2
64bits

S585

eKm(Rb2 || Ra2)
128bitsRa2
64bits

S586

Rb3
64bits

S587

GENERATE
SESSION
KEY Ks

S571

Km

S572

MAC
(AES)

S574

Rb1
64bits

S575

MAC
(AES)

S576

Km

S577

GENERATE
SESSION
KEY Ks

S578

Rb2
64bits

S579

SESSION KEY Ks =
eKm(Ra3 || Rb3)
128bits

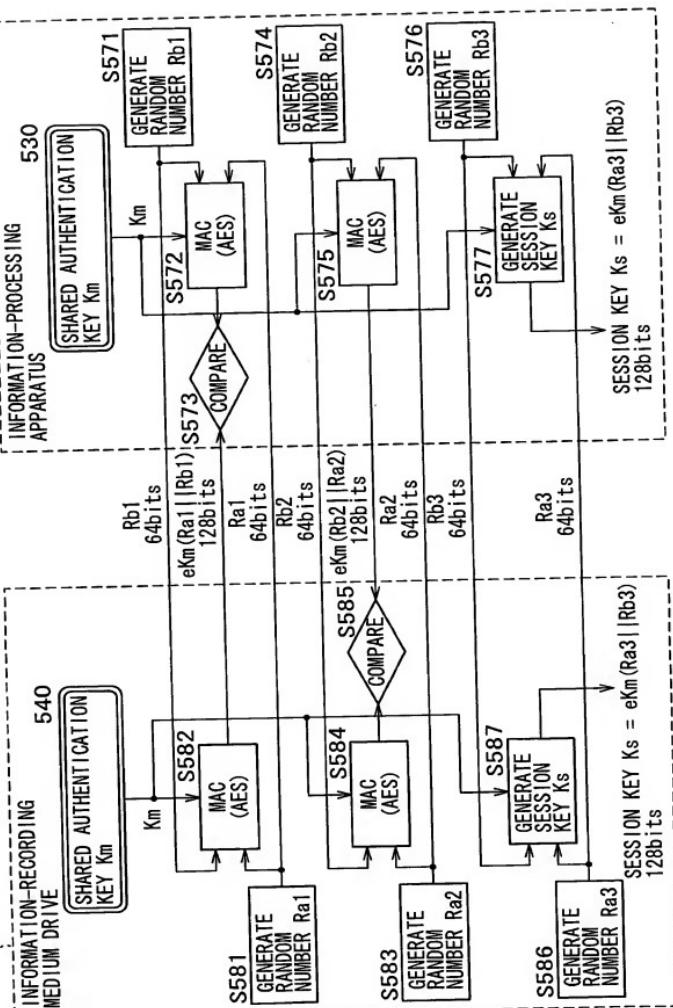
S580

Rb3
64bits

S581

SESSION KEY Ks =
eKm(Ra3 || Rb3)
128bits

S582



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FIG. 20

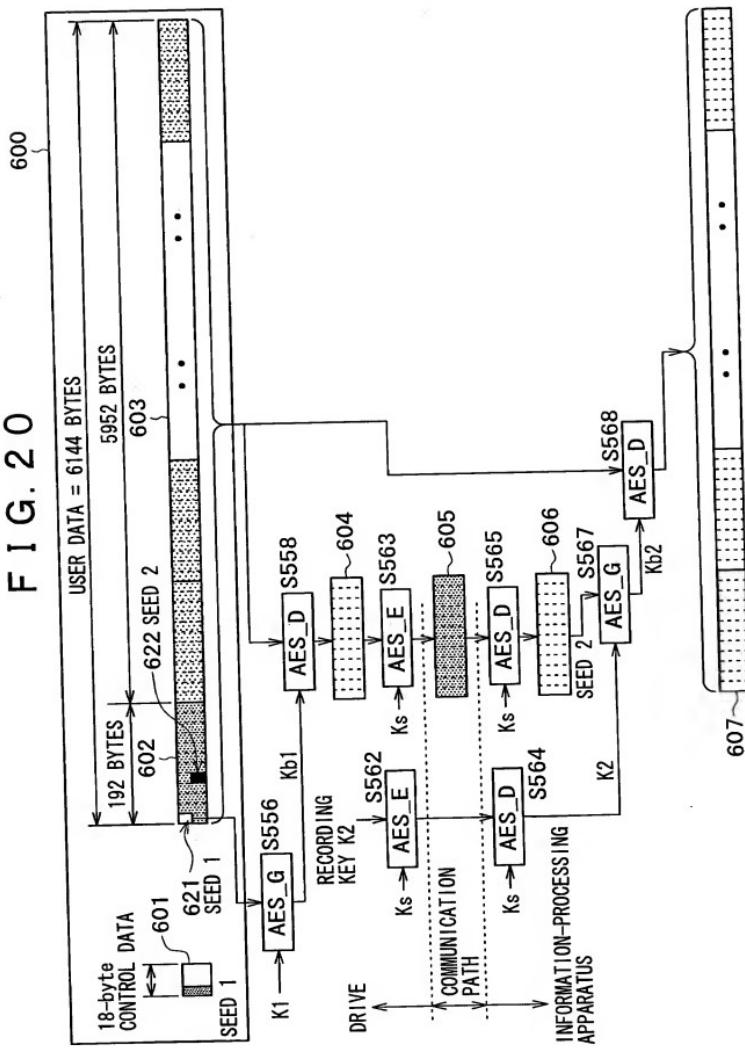
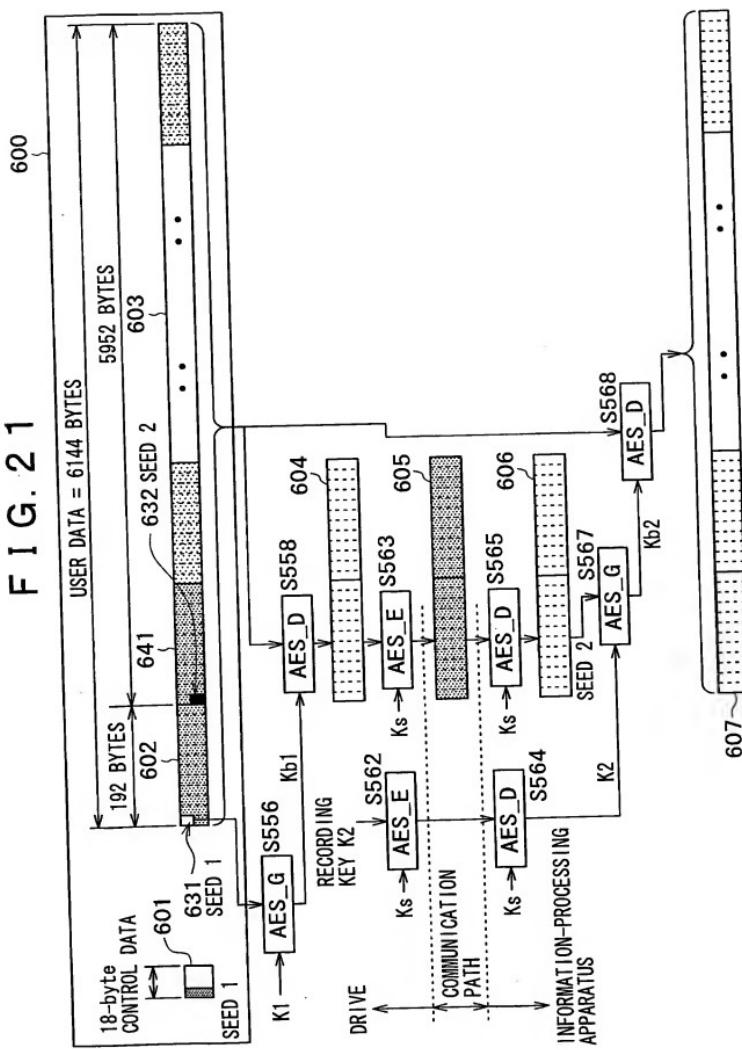


FIG. 21



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FIG. 2

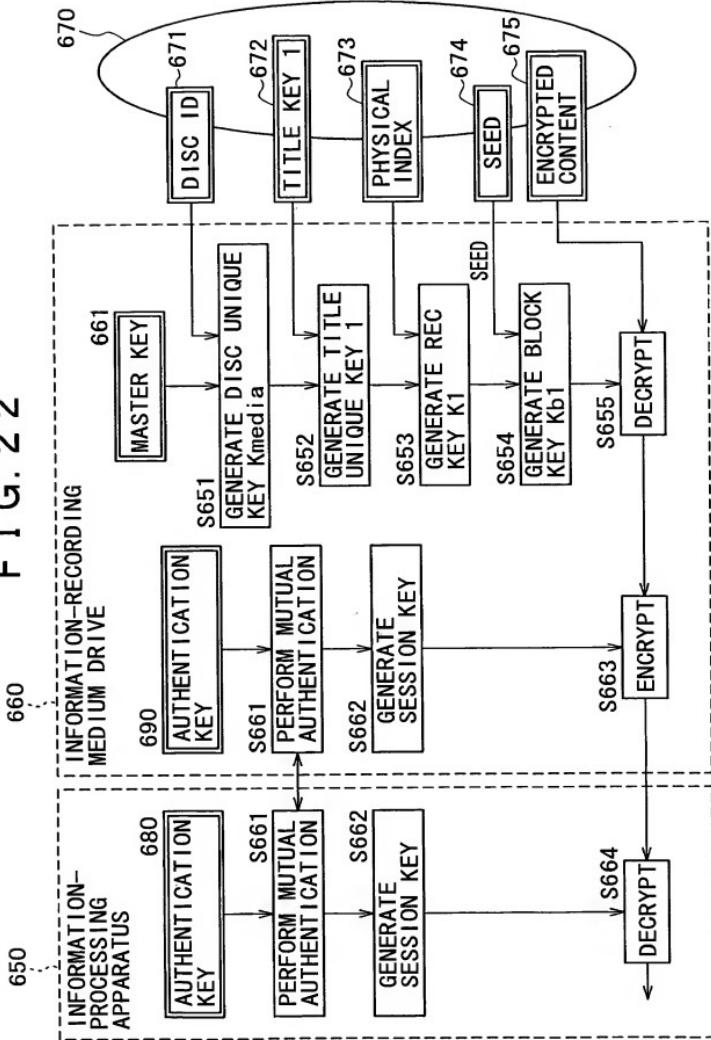


FIG. 23

